

Grade 9

Mathematics

Covid 19-Weekly School

December 2nd week

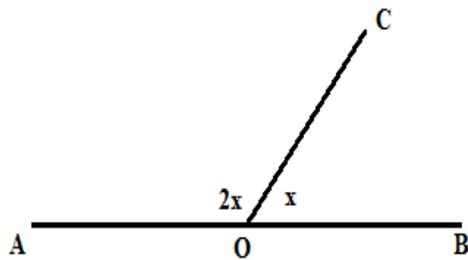
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R/Nivi/Sumana M.V

1. Factorize the following algebraic expression.

$$y^2 - y - 12$$

2. AB is straight line. Find the value of X.



3. Find the general term of the number pattern 85,90,95,100....

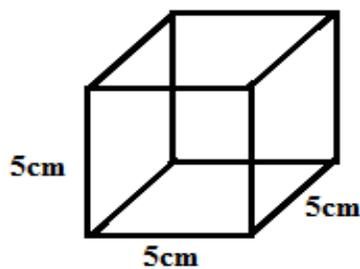
4. Simplify. $1101_{\text{Two}} + 1010_{\text{Two}}$

5. Simplify. $\left(\frac{1}{4} + \frac{2}{3}\right)$ of $\frac{3}{4}$

6. If an item sells at Rs 4470 which were bought at Rs 3000. Calculate the profit percentage.

7. Find the value of $5x - 4y + 7$ when $x = 2$ and $y = (-3)$

8.



a) Find the volume of the cube shaped container

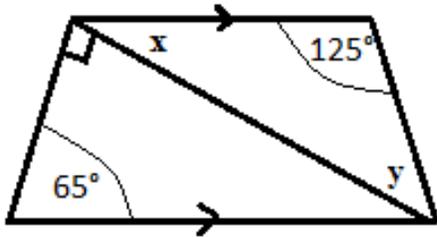
b) How much it is in ml?

9. A car needed 30 l of fuel to travel 180 km. How many liters of fuel does it take for that car to go 312 Km ?
10. Construct the perpendicular bisector of the given straight line.

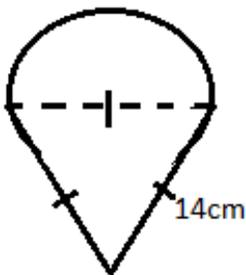


11. Solve. $\frac{y}{2} - \frac{y}{3} = 9$

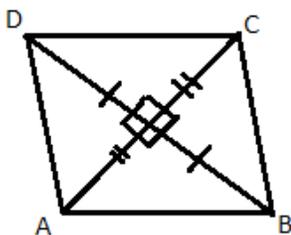
12. Find the values of x and y.



13. Find the perimeter of the figure.



14. The diagonals of the rhombus ABCD bisect each other perpendicularly at O. Moreover, $BD=16$ cm and $AC=12$ cm. Find the perimeter of the rhombus.



15.

Class Interval	Frequency
32 – 38	3
39 – 45	4
46 - 52	5

Find

- i. the modal class.
- ii. the median class.

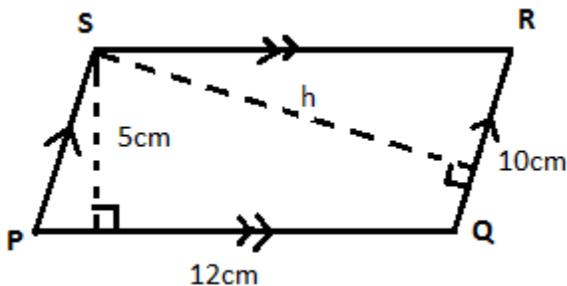
16. Solve the inequality $\frac{-2x}{5} > 6$

17. $A = \{3\}$ $B = \{\text{Odd numbers below } 10\}$

Write down the relationship between the two sets above.

18. Find the area of the parallelogram PQRS .

Find the value of h.



19. Find the probability of drawing a vowel when randomly drawing a letter from the letters . F , R , I , D , A , Y

20. Find the magnitude of an interior angle of a dodecagon.